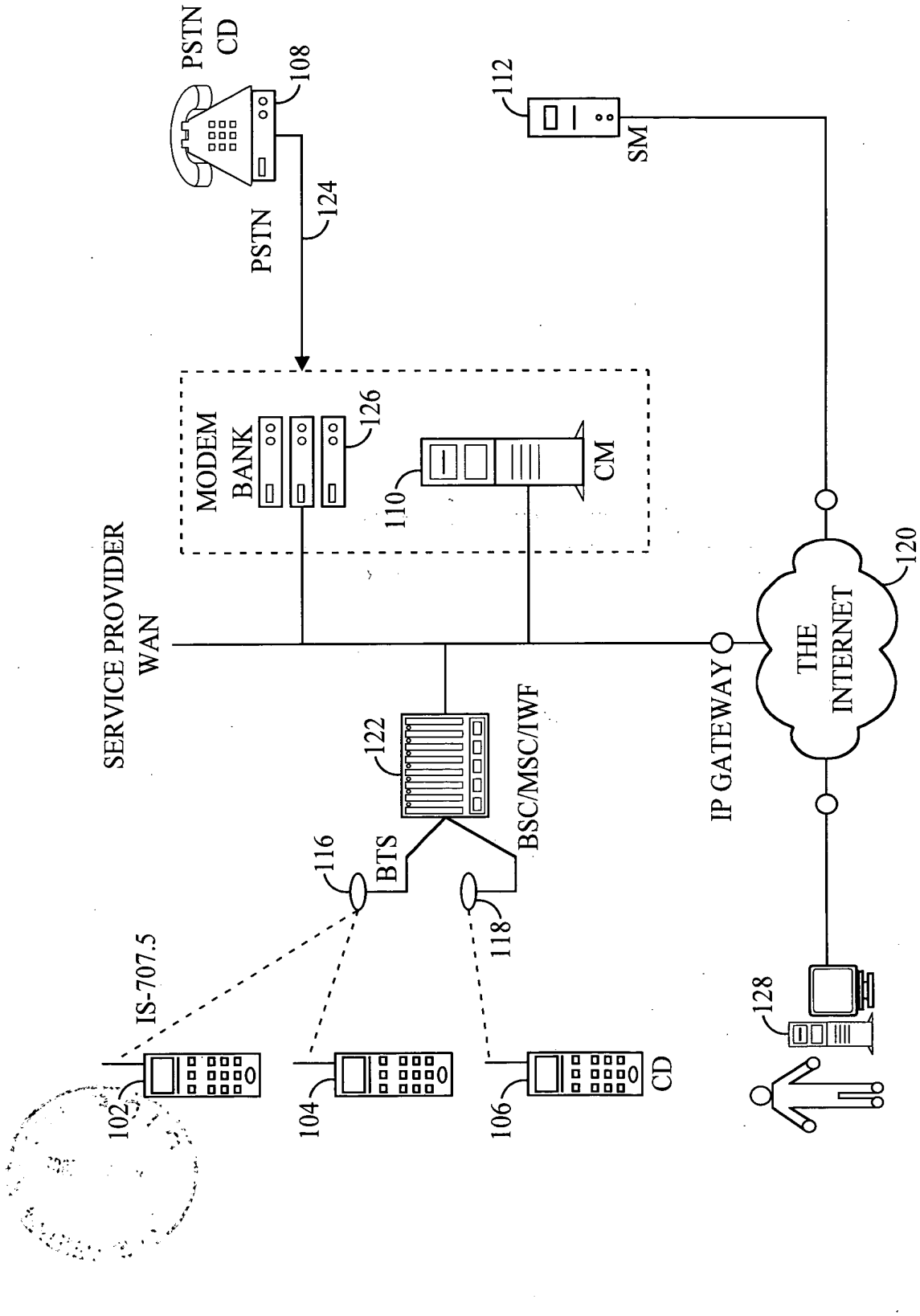

PSTN CD
108
PSTN
124
112
SM
MODEM BANK
126
110
CM
SERVICE PROVIDER WAN
IP GATEWAY
THE INTERNET
120
122
BSC/MSC/TWF
116
BTS
118
IS-707.5
102
104
106
CD
128
NBS TERMINAL OR ADMINISTRATOR
100

FIG. 1

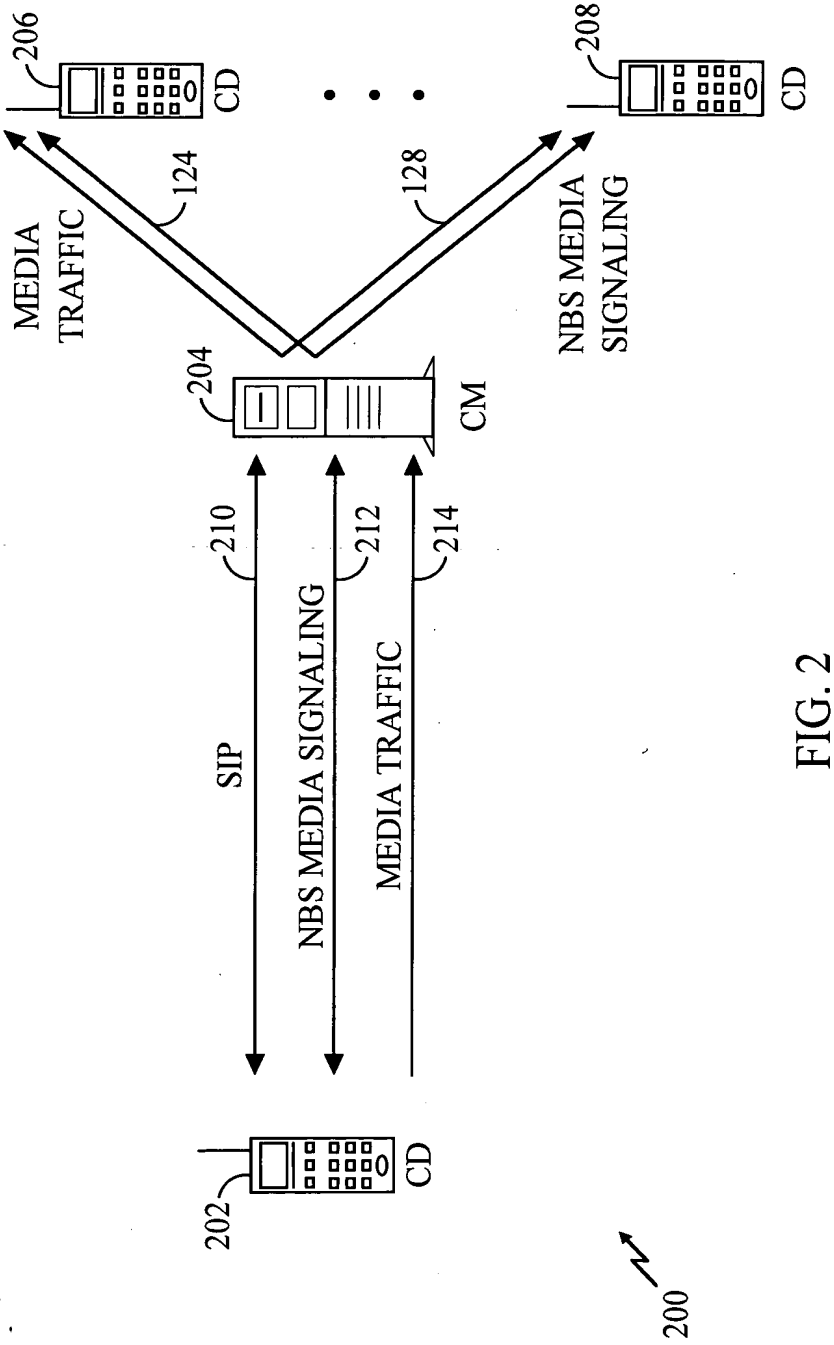

206
CD
208
CD
MEDIA TRAFFIC
124
128
NBS MEDIA SIGNALING
204
CM
210
212
214
SIP
NBS MEDIA SIGNALING
MEDIA TRAFFIC
202
CD
200

FIG. 2

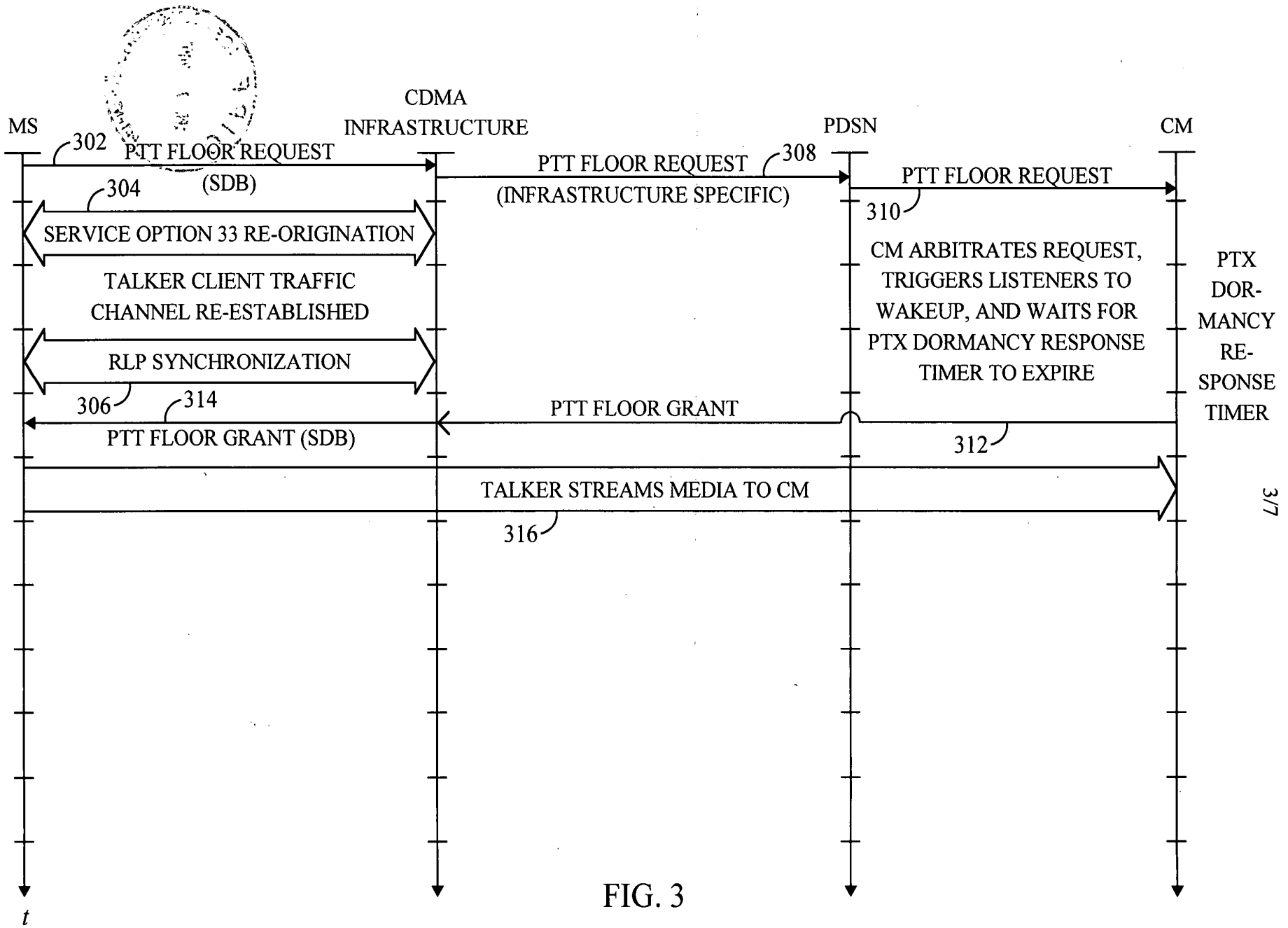

MS
CDMA INFRASTRUCTURE
PDSN
CM
302
PTT FLOOR REQUEST (SDB)
PTT FLOOR REQUEST (INFRASTRUCTURE SPECIFIC)
308
PTT FLOOR REQUEST
310
304
SERVICE OPTION 33 RE-ORIGINATION
CM ARBITRATES REQUEST, TRIGGERS LISTENERS TO WAKEUP, AND WAITS FOR PTX DORMANCY RESPONSE TIMER TO EXPIRE
PTX DOR-MANCY RE-SPONSE TIMER
TALKER CLIENT TRAFFIC CHANNEL RE-ESTABLISHED
RLP SYNCHRONIZATION
306
314
PTT FLOOR GRANT
PTT FLOOR GRANT (SDB)
312
TALKER STREAMS MEDIA TO CM
316
t

FIG. 3

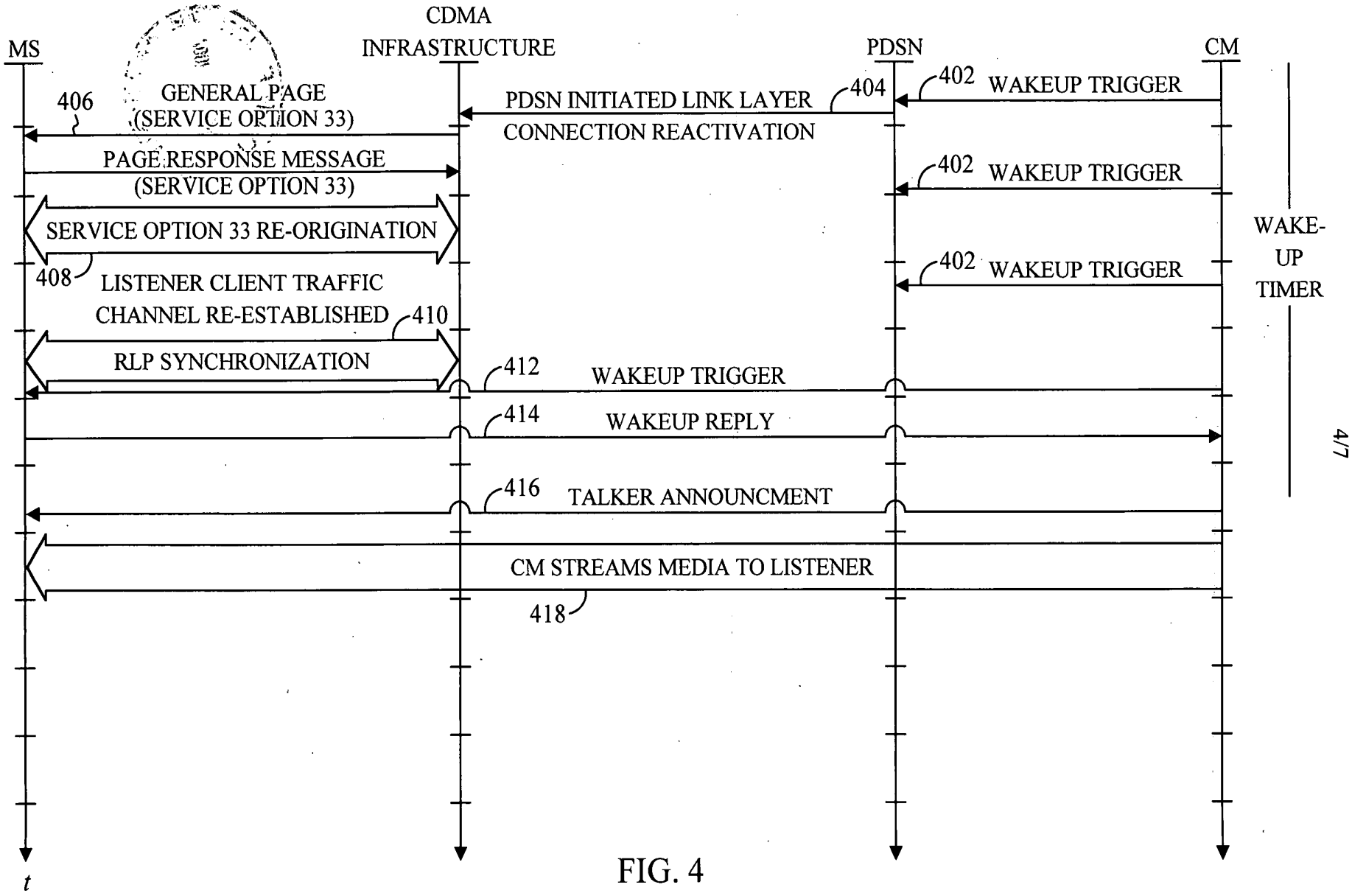
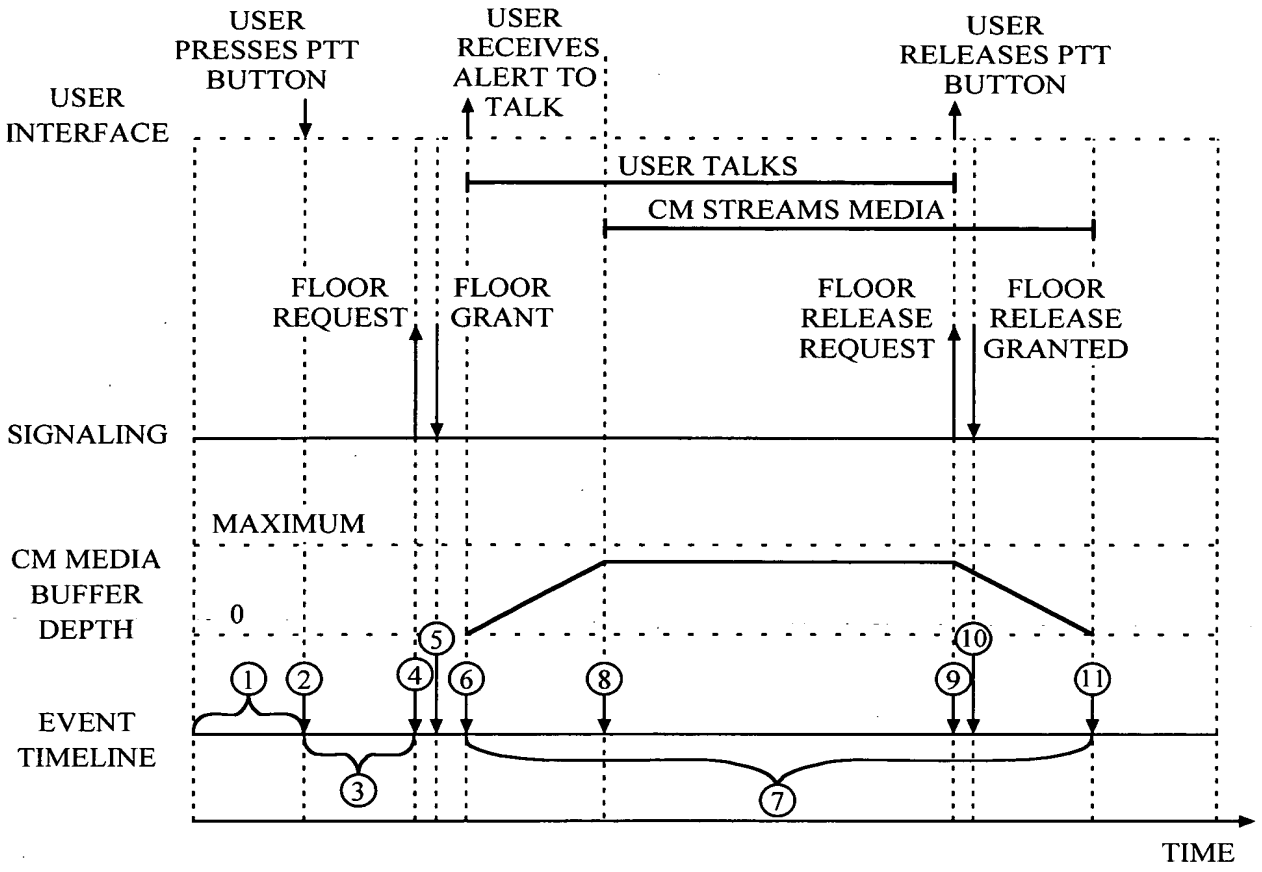
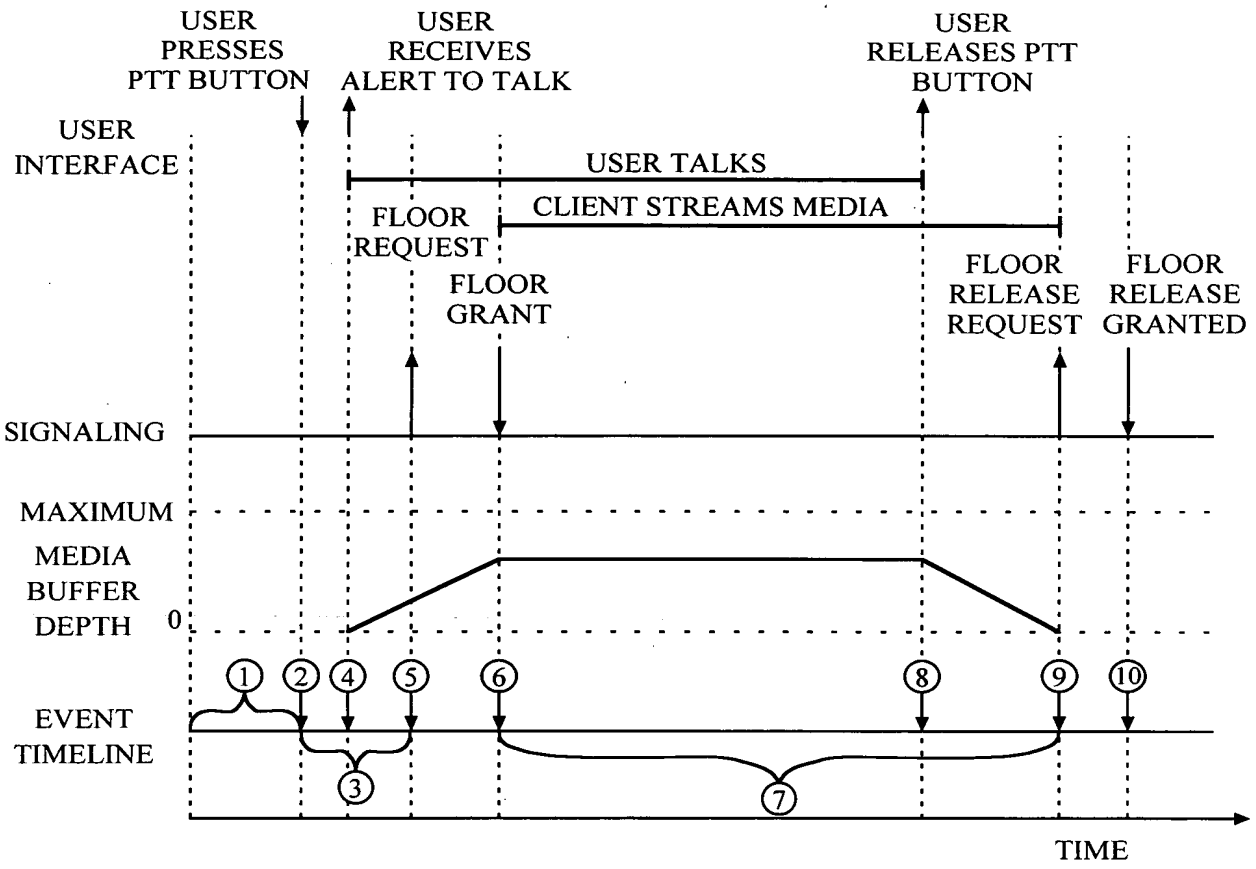

MS
CDMA INFRASTRUCTURE
PDSN
CM
406
GENERAL PAGE (SERVICE OPTION 33)
PDSN INITIATED LINK LAYER CONNECTION REACTIVATION
404
402 WAKEUP TRIGGER
PAGE RESPONSE MESSAGE (SERVICE OPTION 33)
402 WAKEUP TRIGGER
SERVICE OPTION 33 RE-ORIGINATION
WAKE-UP TIMER
408
LISTENER CLIENT TRAFFIC CHANNEL RE-ESTABLISHED
410
402 WAKEUP TRIGGER
RLP SYNCHRONIZATION
412
WAKEUP TRIGGER
414
WAKEUP REPLY
416
TALKER ANNOUNCMENT
CM STREAMS MEDIA TO LISTENER
418
t

FIG. 4



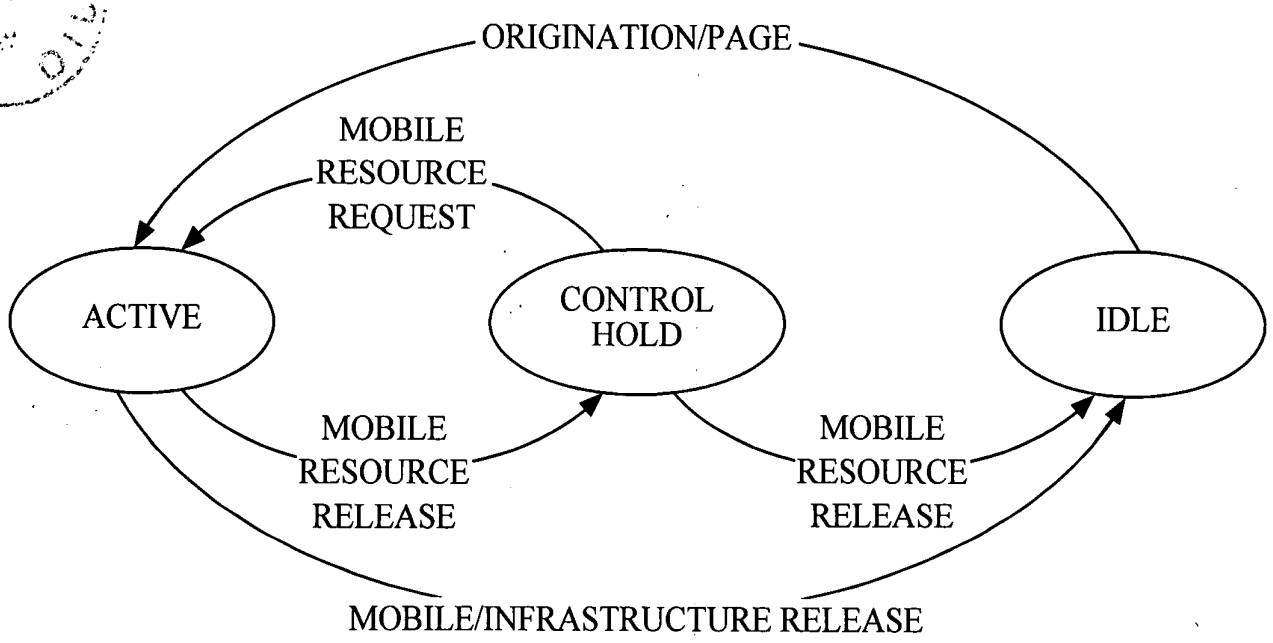
1. Group is Dormant
2. User presses the PTT Button.
3. Client re-establishes a packet data connection.
4. Packet data connection has been established; floor request is transmitted to CM
5. Client receives grant of floor from CM.
6. User is alerted to begin speaking; media is streamed to
7. CM buffers media from talker
8. CM receives indication that listener phones have re-established their traffic channels, and begins streaming media to listeners' phones.
9. User finishes talking and releases his PTT button; floor release request is
10. Floor release is granted to
11. CM stops streaming media to

FIG. 5



1. Group is Dormant
2. User presses the PTT Button.
3. Client begins process of re-establishing a packet data traffic channel.
4. Client alerts user that floor has been granted after a configurable delay and begins buffering user media.
5. Client successfully re-establishes traffic channel. Client transmits request for floor to CM.
6. Client is granted the floor by the CM
7. Client streams buffered media to CM.
8. User releases the PTT button. Client stops buffering media.
9. Client finishes streaming buffered media to CM, requests release of the floor by the CM.
10. Client receives acknowlegement of floor release from the CM

FIG. 6



ACTIVE
FCH AND/OR DCCH ASSIGNED
CONTINUOUS REVERSE PILOT
DEDICATED TRAFFIC CHANNELS

CONTROL HOLD
DCCH ONLY
GATED REVERSE PILOT
NO FUNDAMENTAL TRAFFIC CHANNELS
SHORT DATA BURST AVAILABLE

IDLE
NO DEDICATED CHANNELS
NO REVERSE PILOT
SHORT DATA BURST AVAILABLE

FIG. 7